6S8-GT

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TRIPLE DIODE—HIGH-MU TRIODE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage	6.3	ac or dc volts
Current	0.3	amp

Direct Interelectrode Capacitances:*

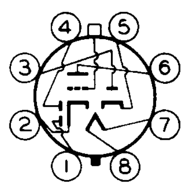
Triode Unit:		
Grid to Plate	1.2	μμf
Grid to Cathode	2.0	μμf
Plate to Cathode	3.8	μμf
Each Diode Unit:		
Plate to Cathode (Approx.)	1.0	μμf

* With external shield.

Mechanical:

Mounting Position	Any
Maximum Overall Length	3-5/8"
Maximum Seated Length	3-1/16"
Maximum Diameter	1-9/32"
Bulb	T-9
Base	Intermediate-Shell Octal 8-Pin
Basing Designation for BOTTOM VIEW	8CB

Pin 1 - Diode Plate No.3
Pin 2 - Cathode of Triode & Diodes Nos. 2 & 3
Pin 3 - Diode Plate No.1



Pin 4 - Diode Plate No.2
Pin 5 - Cathode of Diode No.1
Pin 6 - Triode Plate
Pin 7 - Heater
Pin 8 - Heater
Cap - Triode Grid

TRIODE UNIT
AMPLIFIER - Class A_1

Maximum Ratings, ***Design-Center Values*****:**

PLATE VOLTAGE	300 max.	volts
PLATE DISSIPATION	0.5 max.	watt
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 max.	volts
Heater positive with respect to cathode	90 max.	volts

Characteristics:

Plate Voltage	50	100	250	volts
Grid Voltage	0	-1	-2	volts
Grid Resistor	10	0	0	megohms
Amplification Factor	85	100	100	
Plate Resistance	285000	110000	91000	ohms
Transconductance	300	900	1100	μmhos
Plate Current	0.07	0.4	0.9	ma

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DIODE UNITS

Maximum Ratings, ***Design-Center Values*****:**

PLATE CURRENT (For Each Diode)	1.0 max.	ma

Diode Considerations:

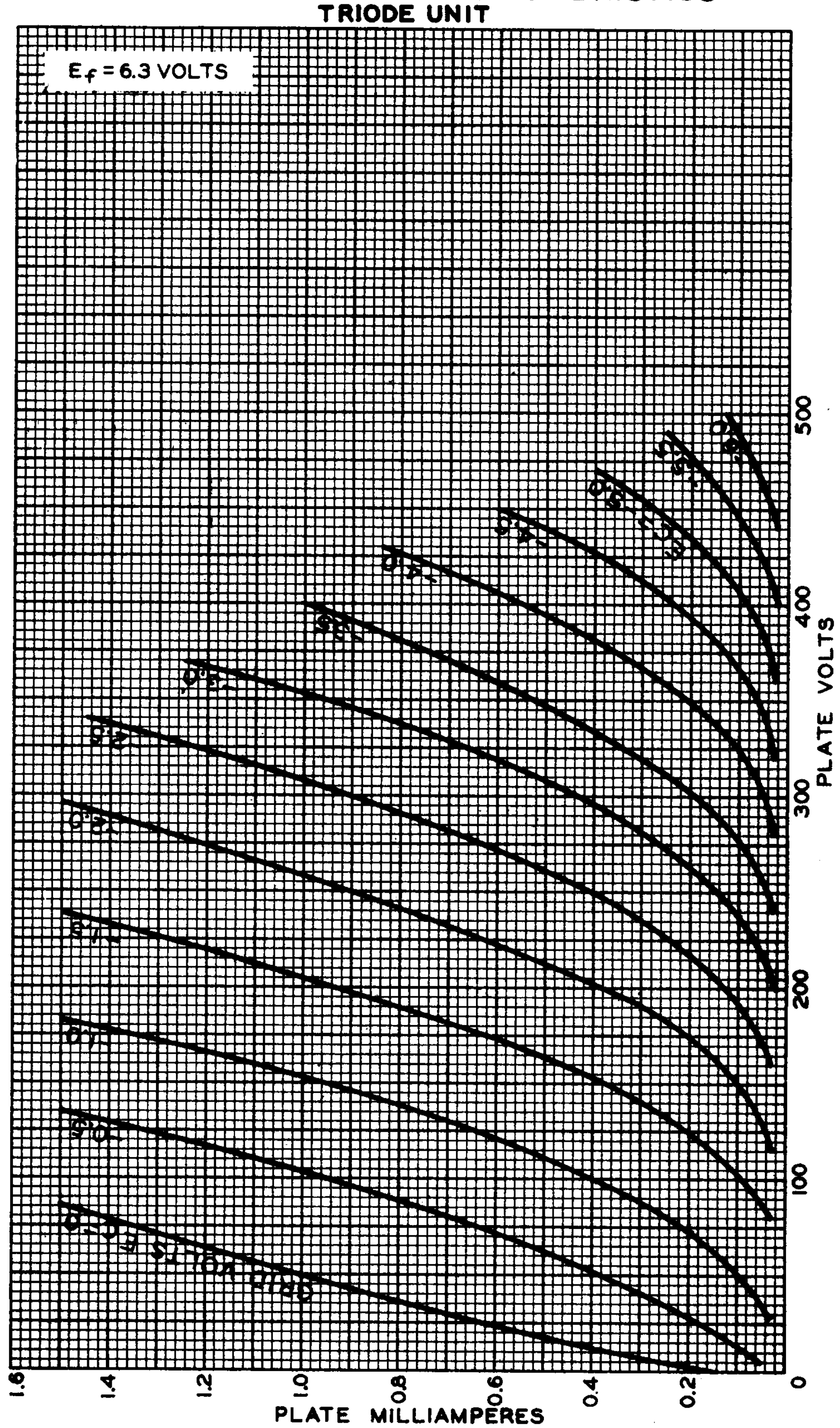
Diode units No.2 & No.3 and the triode unit have a common cathode, and diode unit No.1 has a separate cathode. Diodes No.1 (pins 3 & 5) and No.3 (pins 1 & 2) are recommended for use in FM detector applications, while diode No.2 (pins 4 & 2) is recommended for use as an AM detector.

Further consideration of these units, including diode curves, is given at the front of this section. Diode biasing of the triode unit of the 6S8-GT is not suitable.

RCA

6S8-GT

AVERAGE PLATE CHARACTERISTICS
TRIODE UNIT



JULY 25,1947

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6876